

Title (en)

DEVICE FOR Laterally Transporting Excess Ink, Ink-Water Emulsions or Water

Publication

**EP 0223020 B1 19910313 (DE)**

Application

**EP 86113461 A 19861001**

Priority

DE 3540912 A 19851119

Abstract (en)

[origin: US4711171A] Liquid is moved axially along a liquid roller (1) by a transport roller (2) from end regions towards the center region by forming the transport roller (2) with two conical surface regions (4, 5) which, alternately, are tipped in engagement with the liquid roller (1) while the respectively engaged conical section (e.g. FIG. 1: 4) is axially moving towards the center region of the liquid roller (1). The transport roller can receive its drive by surface engagement, for example, by a cylindrical center portion (3) with the liquid roller, and internal gearing, and positioning of bearings (19, 20) retaining the end portions of the double-conical transport roller eccentrically with respect to the common center shaft (18) which is rotated through a reduction gearing (23-25-26), and simultaneously controls axially oscillating or reciprocating movement by a cam - cam follower arrangement (16, 17) so that synchronism between tipping of the conical surfaces in engagement with the liquid roller and axial movement thereof is insured.

IPC 1-7

**B41F 31/00**

IPC 8 full level

**B41F 7/24** (2006.01); **B41F 31/00** (2006.01); **B41F 31/15** (2006.01); **B41F 31/26** (2006.01)

CPC (source: EP US)

**B41F 31/00** (2013.01 - EP US)

Cited by

FR2651177A1

Designated contracting state (EPC)

CH FR GB IT LI SE

DOCDB simple family (publication)

**EP 0223020 A2 19870527**; **EP 0223020 A3 19890201**; **EP 0223020 B1 19910313**; DE 3540912 A1 19870521; DE 3540912 C2 19871008; JP S62176846 A 19870803; US 4711171 A 19871208

DOCDB simple family (application)

**EP 86113461 A 19861001**; DE 3540912 A 19851119; JP 27425186 A 19861119; US 92773686 A 19861105